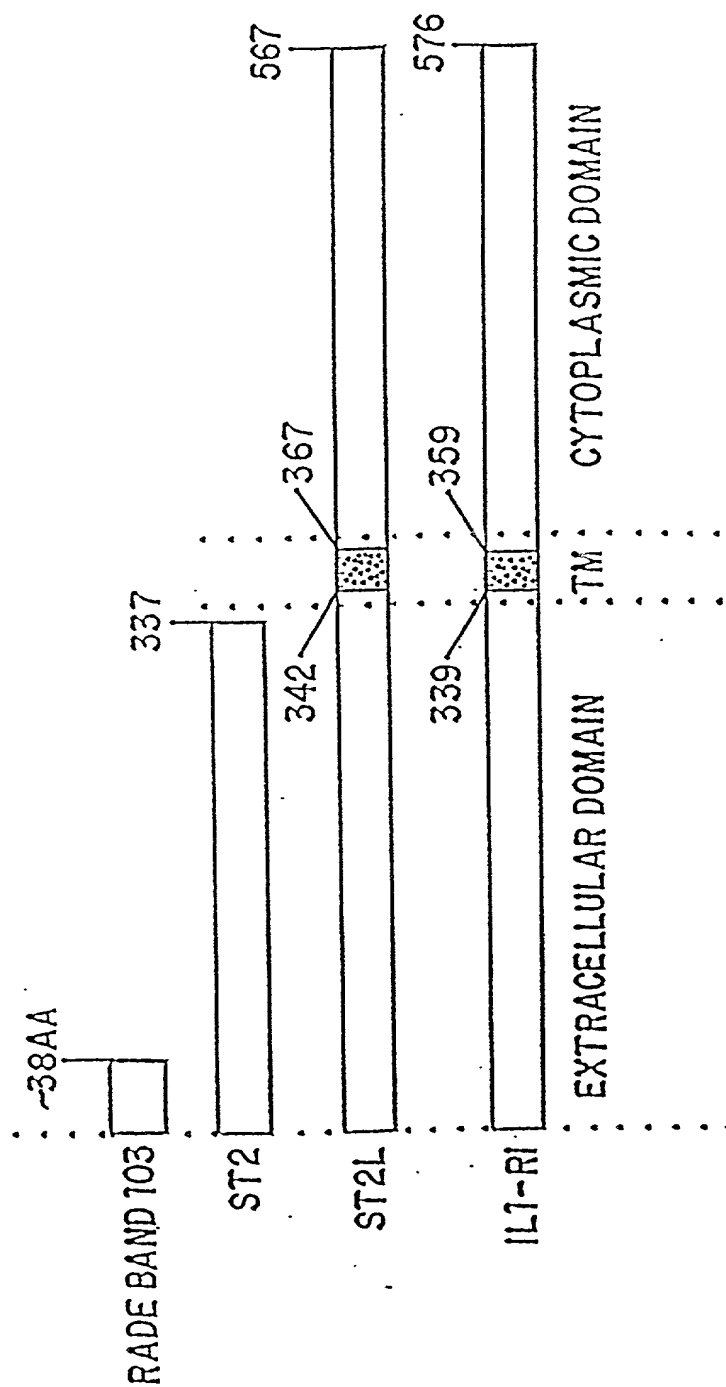


10 20 30 40 50 60
TTAGCGCCAT TGCCATAGAG AGACCTCAGC CATCAATCAC TAGCAGATGA TTGACAGACA 60
GAGAATGGGA CTTTGGGCTT TGGCAATTCT GACACITCCC ATGTATTGA CAGTTACGGA 120
GGGCAGTAAA TCGTCCTGGG GTCTGGAAAA TGAGGCTTTA ATTGTGAGAT GGGCCCAAAG 180
AGGACGCTCG ACTTATCCTG TGGAAATGGTA TTAATCAGAT ACAAATGAAA GTATTCCTAC 240
CCAAAAAAAA AAAAA 255

FIG. 1

**FIG. 2**

1 atgattgaca gacagagaat gggacttgg gctttggcaa ttctgacact toccatgtat
 61 ttgacagtta cggagggcag taaatcgtcc tggggtctgg aaaatgaggc tttaattgtg
 121 agatgcccc aaagaggacg ctcgacttat cctgtggaat ggtattactc agatacaaat
 181 gaaagtatto ctactcaaaa aagaatcgg atctttgtct caagagatcg tctgaagttt
 241 ctaccageca gagtcaaga cctgggatt tatgctgtg ttatcagaag ccccaacttg
 301 aataagactg gatacttgaa tgcaccata cataaaaagc cgccaagctg caatatccct
 361 gattatttga tgtactcgac agtacgtgga tcagataaaa attcaagat aagctgtcca
 421 acaattgacc tgtataattg gacagcacct gttcagtggg ttaagaactg caaagctctc
 481 caagagccaa ggttcagggc acacaggtcc tacttgttca ttgacaactg gactcatgat
 541 gatgaagggt actacacttg tcaattcaca cagcgggaga atggaaccaa ctacatcgtg
 601 acggccacca gatcattcac agtgaagaa aaaggctttt ctatgttcc agtaattaca
 661 aatcctccat acaaccacac aatggaagt gaaataggaa aaccagcaag tattgcctgt
 721 tcagcttget ttggcaaagg ctctcacttc ttggctgatg tcctgtggca gattaacaaa
 781 acagtagttg gaaattttgg tgaagcaaga attcaagaag aggaaggctg aaatgaaagt
 841 tccagcaatg acatggattg tttaacctca gtgttaagga taactggtgt gacagaaaag
 901 gacctgtccc tggaatatga ctgtctggcc ctgaaccttc atggcatgat aaggcacacc
 961 ataaggctga gaaggaaaca accaagtaag gagtgtccct cacacattgc t

FIG. 3A

MIDRQRMGLWALAILTLPMYLTVTEGSKSSWGLENEALIVRCPQRGRSTYPVEWYYSD
TNESIPTQKRNRIFVSRDRLKFLPARVEDSGIYACVIRSPNLNKTGYLNVTHKKPPSCNIP
DYLMYSTVRGSDKNFKITCPTIDLYNWTAPVQWFKNCKALQEPRFRAHRSYLFIDNVTH
DDEGDYTCQFTHAENGTYIVTATRSFTVEEKGFSPVITNPPYNHTMEVEIGKPASIA
CSACFGKGSHFLADVWLQINKTVVGNFGEARIQEEGRNESSNDMDCLTSVLRTGVT
EKDLSLEYDCLALNLHGMIRHTIRLRKQPSKECPHIA

FIG. 3B

1 tggcattgcc atagagagac ctccagccatc aatcactagc acatgattga cagacagaga
 61 atgggaacttt gggttttggc aattctgaca ctcccatgt atttgacagt tacggagggc
 121 agtaaactcgt cctggggtct ggaaaatgag gctttaattg tgagatgccc ccaaagagga
 181 cgctcgactt atcctgtgga atgggtattac tcagatacaa atgaaagtat tcctactcaa
 241 aaaagaaatc ggatctttgt ctcaagagat cgtctgaagt ttctaccagc cagagtggaa
 301 gactctggga tttatgcttg tgttatcaga agccccaact tgaataagac tggatacttg
 361 aatgtcacca tacataaaaa gccgccaagc tgcaatatcc ctgattatct gatgtactcg
 421 acagtacgtg gatcagataa aaatttcaag ataacgtgtc caacaattga cctgtataat
 481 tggacagcac ctgttcagtg gtttaagaac tgcaaagctc tccaagagcc aagggtcagg
 541 gcacacaggt cctacttggt cattgacaac gtgactcatg atgatgaagg tgactacact
 601 tgtcaattca cacacgcgga gaattggaacc aactacatcg tgacggccac cagatcattc
 661 acagttgaag aaaaaggctt ttctatgttt ccagtaatta caaatcctcc atacaaccac
 721 acaatggaag tggaaaatagg aaaaccagca agtattgcct gttcagcttg ctttggcaaa
 781 ggctctcact tcttggctga tgtcctgtgg cagattaaca aaacagtgtt tggaaatttt
 841 ggtgaagcaa gaattcaaga agaggaaggt cgaaatgaaa gttccagcaa tgacatggat
 901 tgtttaacct cagtgttaag gataactggg gtgacagaaa aggacctgtc cctggaatat
 961 gactgtctgg cctgaacct tcatggcatg ataaggcaca ccataaggct gagaaggaaa
 1021 caaccaattg atcacccaag catctactac atagttgctg gatgtagttt attgctaattg
 1081 tttatcaatg tcttgggtgat agtcttaaaa gtgttctgga ttgaggttgc tctgttcttg
 1141 agagatatag tgacacctta caaaaccggc aacgatggca agctctacga tgcgtacatc
 1201 atttaccctc gggctctccg gggcagcgcg gccgggaacc actctgtgga tactttgtt
 1261 caccacactc tgcccgactt tcttgaataa aaatgtggct acaaatgttg cattttatggg
 1321 agagacctgt tacctgggca agatgcagcc accgtgggtg aaagcagtat ccagaatagc
 1381 agaagacagg tgtttgttct ggccctcac atgatgcaca gcaaggaatt tgctacgag
 1441 caggagattg ctctgcacag cgcctcatc cagaacaact ccaagggtgat tcttattgaa
 1501 atggagcctc tgggtgaggg aagccgacta caggttgggg acctgcaaga ttctctccag
 1561 catcttgtga aaattcaggg gaccatcaag tggaggggaa atcatgtggc cgacaagcag
 1621 tctctaagtt ccaaattctg gaagcatgtg aggtaccaaa tgccagtgc cagaaagacc
 1681 tccaagacgg catctgttgc ggctccgttg agtggcaagg catgcttaga cctgaaacac
 1741 ttttgagttg agagctgcgg agtcccagca gtaggcaccg gtagtcaggt gtgcagactt
 1801 gaaatgcaa ggggtggggc cccaagtctc agctaaagag caactctagt ttattttcct
 1861 ggttatggta ggagccacc atcgtttgtt tccggtttcc ttttctact tcaactctgt
 1921 ggcacaagat caaccctgag ctttttctt ttcttttatt tctctttttg ttctctttt
 1981 taaaagcttt ttaaaattga ttatcttatt tatctacctt tcaaaggttt tccccctcc
 2041 cgggtgcccc tctacaaatc cccatcctgc tccctctct cctgcttcta tgagggtgcc
 2101 cccccacctg cccatccact ccagccttac aggccttctg ttccctatg ctggggcatc
 2161 gagcctccat aagacctccc ctctcattca tcaattatct acattctgaa tatcaagccg
 2221 acacttttgt tttgtttttt gattttttga gacagggttt ctctgtgtag ccctggctgt
 2281 cttgaaactc acattgtaga ccaggctggc ctggaactca gaaatcagcc tgcctctgcc
 2341 tccccagtg ctgggattaa aggcgtgcgc caccacgcc ggctaagcct acactttcag
 2401 aataaagtcc tgattcacct caaagacag tctcattccc agaggcagag agccggaaag
 2461 agcctccaat gtgcttgtcc aggcagagct gaccttattt gcttaccagt cacaggtaaa
 2521 caaagcgttt ctccgtgttg cctctgttag acatccctgt aatagattag gaagggaaatg
 2581 agcgtccta ctgaccagt tgtgaattgt ggtagaaaaa gcgttgacgt ttgttaaata
 2641 cttgttagca atgtaaacct cattcctaac acaccagaat ttcttacttt ttattcgtca
 2701 attaccgagt tttgtcaagt cagtattaac agatttggtc gaatacctta cccaaattgc
 2761 cattacagtc gagcatgttt tcagttctaa atgcctttta tatatttttt attcttctta
 2821 gaaatacttc ctcaacttta aagtaattga aagatgtgtt agaaaacata aggtgtaaga
 2881 gaaagtatga taaaatataa aaaataatag aaaggaaaag aaatataatg aaaatcataa
 2941 ctcttaagat taatttttgt aggtctgtat tttaaaatat aattaaattt tataccgata
 3001 acttttatag ctgagattgt aactacaga ctaggcagct tttcctatct accaccataa
 3061 tgaactctgg tggctgattt ctttaacatt cacagaagtt ccaaagtct cattttagac
 3121 tgtgtgcag actatggctg aagcagccag aatgagaaac aggtctgcca tgtcacactg
 3181 ggacattttc ctacttaact aaatgtatct gtcactgtgc gacagctaac ttttgtgata
 3241 ctctatgaa atgtgtaggg aatttggaca gaacagaatc aatctatagt cagaggtcct
 3301 ctggacagtc ttttccagga gcacacacag accgtgaggt cctaggcacc caggaaacgg
 3361 atccagagcc caggcaagt tcttacaggt accttgaatt ttgccaatag atatgagccc
 3421 tgccttagct gagttgtcga gtcggtgatg ggactccagg ctgaggtgac aatgaacaca

FIG. 4A

3481 gaatttggga gactcttgaa aggaggggaa tgttgaactc acggtcaaca tatgaggctg
 3541 cagagaagcc gtatgcagaa gtgtgtgtag aggatctaga gtagcccggt tctctgggga
 3601 cagtgtgctc ttagtctgta cccttaggct ggggtgccag gtaaacattt gctagtgttc
 3661 agttcaaagg ctgaagcttg agctgagggt gatgaggaat tcaaacttcc cctcgcatgc
 3721 atccaccctg tggttgcctg gtttgctaag tccacctgct ctgctgtagt agaaggtttt
 3781 gatcttctgc agcttcatct acttcttagt gagttgccaa aactgaccac tgaaaagcat
 3841 gctgtgtaca taactgtctc atgtcccaga acgtgcaatc aggaggaagt cctcactccc
 3901 gataacggaa tccttgctct gtggctgtga ggacgtccct tagcaacctc agatagtaat
 3961 ttttcttagg ttggatggaa catagtaacg tgctggattc tttgctaact gaaaatagaa
 4021 gtattcggat ttcagaaaga actggataaa tattaatgtt ggtgattatg aaatctcatt
 4081 gtgagccgtg tgagtttgag tgtgtattcc atgattgtgc tgaatgaaga cctctaaaaa
 4141 tgaaattctc tccaatctca tccctgggaa tagttgcttc ctcattgctg ctgctccatc
 4201 catggaaaat gactaaagag aattattatt tgttcccgag attcttctga taagtctaaa
 4261 ctatttgcat gtaattgagc tgggcagcat ggcacacttg ggaggcagag gcagggtggat
 4321 ctctgtgagt ttgaggccag cctgctctac agagttagtt ccaggacacc agagctacaa
 4381 aaagaaaacc tgtctaaca acaacagcaa cagctgcagc agcaacaaca acaacaaaga
 4441 aaaagaagag gaggaggagg aaaggaaaga aggaagaagg aagaagaaag ggaagaaata
 4501 atagattttt ctgtaatgaa cacacatatg ctttgatgct tttgctaaac tcaaaatatt
 4561 agttttatct tactgttttg aaaggttcaa agcatgatcc atgtaaaaat gtcttctgtg
 4621 gggctttctc ccatttctac ttttgttccc ctcatttctt caaagtgtt gtccaggcag
 4681 agctgacctt atttgcttac cagttacagg taaacaaagc gtttcctcgt gttgcctctt
 4741 gtagccatct ctgtattaga ttaggaaggg aaggagccgt cctactgtcc agtttgtgag
 4801 ttctggtaga aagagtgttg aagtttgtaa aatgcttggt ttccatgtat caaaatgtta
 4861 tgcctttcct atttattatt gtatgacaaa ttatttttca ctgggcaaaa ataattgtgc
 4921 cattgactcc ttgtgtgttt tcttcattgtg tgtttgaaga gttctagctt attaaaaaaa
 4981 aaaatctag

FIG. 4A CONTD

MIDRQRMGLWALAILTLPMYLTVTEGSKSSWGLENEALIVRCPQRGRSTYPVEWYYSD
TNESIPTQKRNRIFVSRDLKFLPARVEDSGIYACVIRSPNLNKTGYLNVTIHKKPPSCNIP
DYLMYSTVRGSDKNFKITCPTIDLYNWTAPVQWFKNCKALQEPRFRAHRSYLFIDNVTH
DDEGDYTCQFTHAENGTYIVTATRSFTVEEKGFSPFPVITNPPYNHTMEVEIGKPASIA
CSACFGKGSHFLADVWQINKTVVGNFGEARIQEEBGRNESSSNDMDCLTSVLRITGVT
EKDLSLEYDCLALNLHGMIRHTIRLRKQPIDHRSIYYIVAGCSLLLMFINVLVIVLKVFW
IEVALFWRDIVTPYKTRNDGKLYDAYIIPRVFRGSAAGTHSV EYFVHHTLPDVLENKC
GYKLCIYGRDLLPGQDAATVVESSIQNSRRQVFVLAPHMMHSKEFA YEQEIALHSALIQ
NNSKVILIEMEPLGEASRLQVGDLQDSLQHLVKIQGTIKWREDHVADKQSLSSKFWKHV
RYQMPVPERASKTASVAAPLSGKACLDLKH F

FIG. 4B

1 aaagagagggc tggctgttgt atttagtaaa gctataaagc tgtaagagaa atttgctttc
 61 tgagttgtga aactgtgggc agaaagttga ggaagaaaga actcaagtac aacccaatga
 121 gggtgagata taggctactc ttcccaactc agtcttgaag agtatcacca actgcctcat
 181 gtgtgggtgac cttcactgtc gtatgccagt gactcatctg gagtaatctc aacaacgagt
 241 taccaatact tgctcttgat tgataaacag aatgggggtt tggatcttag caattctcac
 301 aattctcatg tattccacag cagcaaagtt tagtaaacaa tcatggggcc tggaaaatga
 361 ggctttaatt gtaagatgtc cttagacaagg aaaacctagt tacaccgtgg attggtatta
 421 ctacacaaaca aacaaaagta ttccactca ggaagaaat cgtgtgtttg cctcaggcca
 481 acttctgaag tttctaccag ctgaagttgc tgattctggt atttatacct gtattgtcag
 541 aagtcccaca ttcaatagga ctggatatgc gaatgtcacc atatataaaa aacaatcaga
 601 ttgcaatggt ccagattatt tgatgtattc aacagtatct ggatcagaaa aaaattccaa
 661 aattttattgt cctaccattg acctctacaa ctggacagca cctcttgagt ggtttaagaa
 721 ttgtcaggct cttcaaggat caaggtacag ggcgacacag tcatTTTTTg tcatgtataa
 781 tgtgatgact gaggacgcag gtgattacac ctgtaaattt atacacaatg aaaatggagc
 841 caattatagt gtgacggcga ccaggctcct cagggtcaag gatgagcaag gcttttetet
 901 gtttccagta atcggagccc ctgcacaaaa tgaaataaag gaagtggaaa ttggaaaaaa
 961 cgcaaaccta acttgctctg cttgttttgg aaaaggcact cagttcttgg ctgccgtcct
 1021 gtggcagctt aatggaacaa aaattacaga ctttggtgaa ccaagaattc aacaagagga
 1081 agggcaaat caaagtttca gcaatgggct ggcttgtcta gacatgggtt taagaatagc
 1141 tgacgtgaag gaagaggatt tattgctgca gtacgactgt ctggccctga atttgcattg
 1201 cttgagaagg cacacgtaa gactaagtag gaaaaatcca attgatcatc atagcatcta
 1261 ctgcataatt gcagtatgta gtgtattttt aatgctaatac aatgtcctgg ttatcatcct
 1321 aaaaatgttc tggattgagg ccactctgct ctggagagac atagctaaac cttacaagac
 1381 taggaatgat ggaaagctct atgatgctta tgttgtctac ccacggaact acaaattccag
 1441 tacagatggg gccagtctgt tagagcactt tgttcaccag attctgcctg atgttcttga
 1501 aaataaaatgt ggctatacct tatgcattta tgggagagat atgctacctg gagaagatgt
 1561 agtcactgca gtggaaaacca acatacgaag gagcaggcgg cacattttca tctgacccc
 1621 tcagatcact cacaataagg agtttgccta cgagcaggag gttgccctgc actgtgccct
 1681 catccagaac gacgccaagg tgatacttat tgagatggag gctctgagcg agctggacat
 1741 gctgcaggct gaggcgcttc aggactccct ccagcatctt atgaaagtac aggggaccat
 1801 caagtggagg gaggaccaca ttgccaataa aaggctccctg aattccaaat tctggaagca
 1861 cgtgaggtac caaatgcctg tgccaagcaa aattcccaga aaggcctcta gtttgactcc
 1921 cttggctgcc cagaagcaat agtgctgct gtgatgtgca aagggatctg ggtttgaagc
 1981 tttcctgact tctcctagct ggcttatgcc cctgcactga agtgtgagga gcgggaatat
 2041 taaagggatt caggccac

FIG. 5A

1 mgfwilailt ilmystaakf skqswglene alivrcprqg kpsytvdwyy sqtnksiptq
61 ernrvfasgq llkflpaeva dsgiytcivr sptfnrtgya nvtiyykkqsd cnvpdylmys
121 tvsgseknsk iycptidlyn wtaplewfkcn cqualqgsryr ahksflvidn vmtedagdyt
181 ckfihnenga nysvtatrsf tvkdeggsfl fpvigapagn eikeveigkn anltcsacfg
241 kgtqflaavl wqlngtkitd fgepriqgee gqnqsfsgl acldmvlria dvkeedlllq
301 ydclalnlhg lrrhtvrlsr knpidhhsy ciiavcsvfl mlinvlviil kmfwieatll
361 wrdiakpykt rndgklyday vvyprnykss tdgasrvehf vhgilpdvle nkcgytlciy
421 grdmlpgedv vtavetnirk srrhifiltp qithnkefay eqevalhcal iqndakvili
481 emealseldm lqaealqdsf qhlmkvqgti kwredhiank rslnskfwkh vryqmpvpsk
541 iprkassltp laaqkq

FIG. 5B

1 atctcaacaa cgagttacca atacttgctc ttgattgata aacagaatgg ggttttggat
 61 cttagcaatt ctcaaatc tcatgtattc cacagcagca aagtttagta aacaatcatg
 121 gggcctggaa aatgaggctt taattgtaag atgtcctaga caaggaaaac ctagttaacac
 181 cgtggattgg tattactcac aaacaaacaa aagtattccc actcaggaaa gaaatcgtgt
 241 gtttgctca ggccaacttc tgaagtttct accagctgaa gttgctgatt ctggtattta
 301 tacctgtatt gtcagaagtc ccacattcaa taggactgga tatgcgaatg tcaccatata
 361 taaaaaacaa tcagattgca atgttccaga ttatttgatg tattcaacag tatctggatc
 421 agaaaaaat tccaaaattt attgtcctac cattgacctc tacaactgga cagcacctct
 481 tgagtggttt aagaattgtc aggctcttca aggatcaagg tacagggcgc acaagtcatt
 541 tttggtcatt gataatgtga tgactgagga cgcaggtgat tacacctgta aatttataca
 601 caatgaaaat ggagccaatt atagtgtgac ggcgaccagg tccttcacgg tcaaggatga
 661 gcaaggcttt tctctgtttc cagtaatcgg agccctgca caaatgaaa taaaggaagt
 721 ggaaattgga aaaaacgcaa acctaacttg ctctgcttgt tttggaaaag gcactcagtt
 781 cttggctgcc gtcctgtggc agcttaatgg aacaaaaatt acagactttg gtgaaccaag
 841 aattcaacaa gaggaagggc aaaatcaaag tttcagcaat gggctggctt gtctagacat
 901 ggttttaaga atagctgacg tgaaggaaga ggatttattg ctgcagtacg actgtctggc
 961 cctgaatttg catggcttga gaaggcacac cgtaagacta agtaggaaaa atccaagtaa
 1021 ggagtgtttc tgagactttg atcacctgaa ctttctctag caagtgtgaa cagaatggag
 1081 tgtggttcca agagatccat caagacaatg ggaatggcct gtgccataaa atgtgcttct
 1141 cttcttcggg atgttggttg ctgtctgac tttgtagact gttcctgttt gctgggagct
 1201 tctctgctgc tttaattgtt cgtcctcccc cactccctcc tatcgttggt ttgtctagaa
 1261 cactcagctg cttctttggt catccttggt ttctaacttt atgaactccc tctgtgtcac
 1321 tgtatgtgaa aggaaatgca ccaacaaccg aaaactg

FIG. 6A

MGFWILAILTILMYSTAAKFSKQSWGLENEALIVRCPRQGKPSYTVDW
YYSQTNKSIPTQERNRVFASGQLLKFLPAEVADSGIYTCIVRSPTFNRT
GYANVTIYKKQSDCNVPDYLMYSTVSGSEKNSKIYCPTIDLYNWTAPL
EWFKNCQALQGSRYRAHKSFLVIDNVMTEDAGDYTCKFIHNENGAN
YSVTATRSFTVKDEQGFSLFPVIGAPAQNEIKEVEIGKNANLTCSACFG
KGTQFLAAVLWQLNGTKITDFGEPRIQQEEGQNQSFSNGLACLDMVL
RIADVKEEDLLLQYDCLALNLHGLRRHTVRLSRKNPSKECF

FIG. 6B

1 cttagctccg tcaactgactc caagttcoac ccctctgtct ttcagtttgg ttgagatata
 61 ggctactctt cccaactcag tcttgaagag tatcaccaac tgcctcatgt gtggtgacct
 121 tcactgttgt atgccagtga ctcatctgga gtaatctcaa caacgagtta ccaatacttg
 181 ctcttgattg ataaacagaa tgggggtttg gatcttagca attctcacia ttctcatgta
 241 ttccacagca gcaaagttta gtaaacaatc atggggcctg gaaaatgagg ctttaattgt
 301 aagatgtcct agacaaggaa aacctagtta caccgtggat tggattact cacaaacaaa
 361 caaaagtatt cccactcagg aaagaaatcg tgtgtttgcc tcaggccgac ttctgaagtt
 421 tctaccagct gaagttgctg attctgggtat ttatacctgt attgtcagaa gtcccacatt
 481 caataggact ggatattgca atgtcaccat atataaaaaa caatcagatt gcaatgttcc
 541 agattatttg atgtattcaa cagtatctgg atcagaaaaa aattccaaaa tttattgtcc
 601 taccattgac ctctacaact ggacagcacc tcttgagtgg tttagaatt gtcaggctct
 661 tcaaggatca aggtacaggg cgcacaagtc atttttgggc attgataatg tgatgactga
 721 ggacgcaggt gattacacct gtaaatat acacaatgaa aatggagcca attatagtgt
 781 gacggcgacc aggtccttca cgggtcaaggt ttggtgtcag agtttctgca aattaaaaaa
 841 gagcttaatc tttagtaata ctcatggat tcaaagtcta atgagaggct ttgtgatggg
 901 atactatggg gtacataaat gttgtcgagt ggtttttaat ctttgtttgc aatactttca
 961 acatcatcaa tggccttgaa tgagcaaggc ttttctctgt ttccagtaat cggagcccct
 1021 gcacaaaatg aaataaagga agtggaaatt ggaaaaaacg caaacctaac ttgctctgct
 1081 tgttttggaa aaggcactca gttcttggct gccgtctgt ggcagcttaa tggaaacaaa
 1141 attacagact ttggtgaacc aagaattcaa caagaggaag ggcaaaatca aagtttcagc
 1201 aatgggctgg cttgtctaga catggtttta agaataagctg acgtgaagga agaggattta
 1261 ttgctgcagt acgactgtct ggccctgaat ttgcatggct tgagaaggca caccgtaaga
 1321 ctaagtagga aaaatccaag taaggagtgt ttctgagact ttgatcacct gaactttctc
 1381 tagcaagtgt aagcagaatg gagtgtgggt ccaagagatc catcaagaca atgggaatgg
 1441 cctgtgccat aaaatgtgct tctcttcttc gggatgttgt ttgctgtctg atctttgtag
 1501 actgttctctg tttgtctggga gcttctctgc tgcttaaatt gttcgtcctc cccactccc
 1561 tcctatcggt ggtttgtcta gaacactcag ctgcttcttt ggtcatcctt gttttctaac
 1621 tttatgaact ccctctgtgt cactgtatgt gaaaggaaat gcaccaacaa ccgaaaactg

FIG. 7A

1 mgfwilailt ilmystaakf skqswglene alivrcprqg kpsytvdwyy sqtnksiptq
61 ernrvfasgr llkflpaeva dsgiytcivr sptfnrtgya nvtiyykkqsd cnvpdylmys
121 tvsgseknsk iycptidlyn wtaplewfk n cgalqgsryr ahksflvidn vntedagdyt
181 ckfihnenga nysvtatrsf tvkvwcqsfc klkkslifsn thwiqslmrg fvmvyygvhk
241 ccrvvfnlcl qyfqqhqw

FIG. 7B

GTCGACCCACGCGTCCGCCCCACGCGTCCGCTGGAGTAATCTCAACAACGAGTTACCAATACTTGCTCTTGATTGATAAA 79
 M G F W I L A I L T I L M Y S T A A 18
 CAGA ATG GGG TTT TGG ATC TTA GCA ATT CTC ACA ATT CTC ATG TAT TCC ACA GCA GCA 137
 K F S K Q S W G L E N E A L I V R C P R 38
 AAG TTT AGT AAA CAA TCA TGG GGC CTG GAA AAT GAG GCT TTA ATT GTA AGA TGT CCT AGA 197
 Q G K P S Y T V D W Y Y S Q T N K S I P 58
 CAA GGA AAA CCT AGT TAC ACC GTG GAT TGG TAT TAC TCA CAA ACA AAC AAA AGT ATT CCC 257
 T Q E R N R V F A S G Q L L K F L P A A 78
 ACT CAG GAA AGA AAT CGT GTG TTT GCC TCA GGC CAA CTT CTG AAG TTT CTA CCA GCT GCA 317
 V A D S G I Y T C I V R S P T F N R T G 98
 GTT GCT GAT TCT GGT ATT TAT ACC TGT ATT GTC AGA AGT CCC ACA TTC AAT AGG ACT GGA 377
 Y A N V T I Y K K Q S D C N V P D Y L M 118
 TAT GCG AAT GTC ACC ATA TAT AAA AAA CAA TCA GAT TGC AAT GTT CCA GAT TAT TTG ATG 437
 Y S T V S G S E K N S K I Y C P T I D L 138
 TAT TCA ACA GTA TCT GGA TCA GAA AAA AAT TCC AAA ATT TAT TGT CCT ACC ATT GAC CTC 497
 Y N W T A P L E W F K M S K A F L C F Q 158
 TAC AAC TGG ACA GCA CCT CTT GAG TGG TTT AAG ATG AGC AAG GCT TTT CTC TGT TTC CAG 557
 *50 50 50 50 50 550 159
 TAA 560
 TCGGAGCCCCCTGCACAAAATGAAATAAAGGAAGTGGAAATTGGCACTCAGTTCTTGGCTGCCGTCCTGTGGCAGCTTAA 639
 TGGAACAAAATACAGACTTTGGTGAACCAAGAATCAACAAGAGGAAGGGCAAAATCAAAGTTTCAGCAATGGGCTG 718
 GCTTGTCTAGACATGGTTTTAAGAATAGCTGACGTGAAGGAAGAGGATTTATTGCTGCAGTACGACTGTCTGGCCCTGA 797
 ATTTGCATGGCTTGAGAAGGCACACCGTAAGACTAAGTAGGAAAAATCCAAGTAAGGAGTGTCTGAGACTTTGATCA 876
 CCTGAACCTTTCTCTAGCAAGTGTAAAGCAGAATGGAGTGTGGTTCCAAGAGATCCATCAAGACAATGGGAATGGCCTGTG 955
 CCATAAAATGTGCTTCTCTCTTCGGGATGTTGTTTGCTGTCTGATCTTTGTAGACTGTTTCTGTTGCTGGGAGCTTC 1034
 TCTGCTGCTTAAATTGTTTCCTCTCCCTCCCTCTATCGTTGGTTTGTCTAGAACTCAGCTGCTTCTTTGGTC 1113
 ATCCTTGTCTTCTAACTTTATGAACTCCCTCTGTGTCACTGTATGTGAAAGGAAATGCACCAACAACCGTAAAAA 1192
 AAAAAAGGGCGGCCGCT 1210

FIG. 8

P14719	MIDRQRMGLW	ALAILTLPMY	LTVTEGSKSS	WGLENEALIV	RCPQGRSTY
S29498	MIDRQRMGLW	ALAILTLPMY	LTVTEGSKSS	WGLENEALIV	RCPQGRSTY
P14719	PVEWYSDTN	ESIPTQKRN	IFVSRDLKF	LPARVEDSGI	YACVIRSPNL
S29498	PVEWYSDTN	ESIPTQKRN	IFVSRDLKF	LPARVEDSGI	YACVIRSPNL
P14719	NKTGYLNVTI	HKKPPSCNIP	DYLMYSTVRG	SDKNFKITCP	TIDLYNWTAP
S29498	NKTGYLNVTI	HKKPPSCNIP	DYLMYSTVRG	SDKNFKITCP	TIDLYNWTAP
P14719	VQWFKCKAL	QEPRFRAHRS	YLFIDNVTHD	DEGDYTCQFT	HAENGNYIV
S29498	VQWFKCKAL	QEPRFRAHRS	YLFIDNVTHD	DEGDYTCQFT	HAENGNYIV
P14719	TATRSFTVEE	KGFSMFPVIT	NPPYNHTMEV	EIGKPASIAC	SACFGKGSFH
S29498	TATRSFTVEE	KGFSMFPVIT	NPPYNHTMEV	EIGKPASIAC	SACFGKGSFH
P14719	LADVLWQINK	TVVGNFGear	IQEEEGRNES	SSNDMDCLTS	VLRITGVTEK
S29498	LADVLWQINK	TVVGNFGear	IQEEEGRNES	SSNDMDCLTS	VLRITGVTEK
P14719	DLSLEYDCLA	LNHGMIRHT	IRLRRKQ SK	ECPSHIA...	.....
S29498	DLSLEYDCLA	LNHGMIRHT	IRLRRKQ ID	HRSIYYIVAG	CSLLLMFINV
P14719	.....	.....	.....	.....	.....
S29498	LVIVLKVFWI	EVALFWRDIV	TPYKTRNDGK	LYDAYIIYPR	VFRGSAAGTH
P14719	.....	.....	.....	.....	.....
S29498	SVEYFVHHTL	PDVLENKCGY	KLCIYGRDLL	PGQDAATVVE	SSIQNSRRQV
P14719	.....	.....	.....	.....	.....
S29498	FVLAPHMMHS	KEFAYEQEIA	LHSALIQNNS	KVILIEMEPL	GEASRLQVGD
P14719	.....	.....	.....	.....	.....
S29498	LQDSLQHLVK	IQGTIKWRED	HVADKQSLSS	KFWKHVRYQM	PVPERASKTA
P14719	.....	.....	.....	.....	.....
S29498	SVAAPLSGKA	CLDLKHF	.....	.....	.....

FIG. 9

BAA82405	MGFWILAILT	ILMYSTAARK	SKQSWGLENE	ALIVRCPRQG	KPSYTVDWYY
BAA02233	MGFWILAILT	ILMYSTAARK	SKQSWGLENE	ALIVRCPRQG	KPSYTVDWYY
Athdc120c9	MGFWILAILT	ILMYSTAARK	SKQSWGLENE	ALIVRCPRQG	KPSYTVDWYY
BAA85894	MGFWILAILT	ILMYSTAARK	SKQSWGLENE	ALIVRCPRQG	KPSYTVDWYY
BAA82405	SQTNKSIPTQ	ERNRVFASGQ	LLKFLPAEVA	DSGIYTCIVR	SPTFNRTGYA
BAA02233	SQTNKSIPTQ	ERNRVFASGQ	LLKFLPAEVA	DSGIYTCIVR	SPTFNRTGYA
Athdc120c9	SQTNKSIPTQ	ERNRVFASGQ	LLKFLPAEVA	DSGIYTCIVR	SPTFNRTGYA
BAA85894	SQTNKSIPTQ	ERNRVFASGR	LLKFLPAEVA	DSGIYTCIVR	SPTFNRTGYA
BAA82405	NVTIYKKQSD	CNVPDYLmys	TVSGSEKNSK	IYCPTIDLIN	WTAPLEWFKN
BAA02233	NVTIYKKQSD	CNVPDYLmys	TVSGSEKNSK	IYCPTIDLIN	WTAPLEWFKN
Athdc120c9	NVTIYKKQSD	CNVPDYLmys	TVSGSEKNSK	IYCPTIDLIN	WTAPLEWFKM
BAA85894	NVTIYKKQSD	CNVPDYLmys	TVSGSEKNSK	IYCPTIDLIN	WTAPLEWFKN
BAA82405	CQALQGSRYR	AHKSFLVIDN	VMTEAGDYT	CKFIHNENGA	NYSVTATRSF
BAA02233	CQALQGSRYR	AHKSFLVIDN	VMTEAGDYT	CKFIHNENGA	NYSVTATRSF
Athdc120c9	SKAFLCFQ..	.....	.....	.....	.....
BAA85894	CQALQGSRYR	AHKSFLVIDN	VMTEAGDYT	CKFIHNENGA	NYSVTATRSF
BAA82405	TVK.....	DEQGFSLFPV	IGAPAQNEIK	EVEIGKNANL	TCSACFGKGT
BAA02233	TVK.....	DEQGFSLFPV	IGAPAQNEIK	EVEIGKNANL	TCSACFGKGT
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	TVKVCQSFC	KLKSLIFSN	THWISLMRG	FVMVYGVHK	CCRNVFNLC
BAA82405	QFLAAVLWQL	NGTKITDFGE	PRIQEEGQN	QSFSNGLACL	DMVLRIADVK
BAA02233	QFLAAVLWQL	NGTKITDFGE	PRIQEEGQN	QSFSNGLACL	DMVLRIADVK
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	QYFQHHQWP.	.....	.....	.....	.....
BAA82405	EEDLLLQYDC	LALNLHGLRR	HTVRLSRKNP	IDHHSIYCII	AVCSVFLMLI
BAA02233	EEDLLLQYDC	LALNLHGLRR	HTVRLSRKNP	SKECF.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....
BAA82405	NVLVIIKMF	WIEATLLWRD	IAKPYKTRND	GKLYDAYVVY	PRNYKSSTDG
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....
BAA82405	ASRVEHFVHQ	ILPDVLENKC	GYTLCIYGRD	MLPGEDVVTA	VETNIRKSR
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....
BAA82405	HIFILTPQIT	HNKEFAYEQE	VALHCALION	DAKVILIEME	ALSELDMLQA
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....
BAA82405	EALQDSIQHL	MKVQGTIKWR	EDHIANKRSL	NSKFWKHVRY	QMPVPKIPR
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....
BAA82405	KASSLTPLAA	QKQ	.....	.....	.....
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

FIG. 10

P14719	MIDRQRMGLW	ALAILTLPMY	LTVTEGSKSS	WGLENEALIV	RCPQGRSTY
S29498	MIDRQRMGLW	ALAILTLPMY	LTVTEGSKSS	WGLENEALIV	RCPQGRSTY
BAA82405	.....MGFW	ILAILTILMY	STAAKFSKQS	WGLENEALIV	RCPRQGKPSY
BAA02233	.....MGFW	ILAILTILMY	STAAKFSKQS	WGLENEALIV	RCPRQGKPSY
Athdc120c9	.....MGFW	ILAILTILMY	STAAKFSKQS	WGLENEALIV	RCPRQGKPSY
BAA85894	.....MGFW	ILAILTILMY	STAAKFSKQS	WGLENEALIV	RCPRQGKPSY

P14719	PVEWYYSDTN	ESIPTQKRNR	IFVSRDRLKF	LPARVEDSGI	YACVIRSPNL
S29498	PVEWYYSDTN	ESIPTQKRNR	IFVSRDRLKF	LPARVEDSGI	YACVIRSPNL
BAA82405	TVDWYYSQTN	KSIPTQERNR	VFASGQLLK	LPAEVADSGI	YTCIVRSPTF
BAA02233	TVDWYYSQTN	KSIPTQERNR	VFASGQLLK	LPAEVADSGI	YTCIVRSPTF
Athdc120c9	TVDWYYSQTN	KSIPTQERNR	VFASGQLLK	LPAEVADSGI	YTCIVRSPTF
BAA85894	TVDWYYSQTN	KSIPTQERNR	VFASGQLLK	LPAEVADSGI	YTCIVRSPTF

P14719	NKTGYLNVTI	HKKPPSCNIP	DYLMYSTVRG	SDKNFKITCP	TIDLYNWTAP
S29498	NKTGYLNVTI	HKKPPSCNIP	DYLMYSTVRG	SDKNFKITCP	TIDLYNWTAP
BAA82405	NRTGYANVTI	YKKQSDCNVP	DYLMYSTVSG	SEKNSKIYCP	TIDLYNWTAP
BAA02233	NRTGYANVTI	YKKQSDCNVP	DYLMYSTVSG	SEKNSKIYCP	TIDLYNWTAP
Athdc120c9	NRTGYANVTI	YKKQSDCNVP	DYLMYSTVSG	SEKNSKIYCP	TIDLYNWTAP
BAA85894	NRTGYANVTI	YKKQSDCNVP	DYLMYSTVSG	SEKNSKIYCP	TIDLYNWTAP

P14719	VQWFKNCAL	QEPRFRAHRS	YLFIDNVTHD	DEGDYTCQFT	HAENGNTYIV
S29498	VQWFKNCAL	QEPRFRAHRS	YLFIDNVTHD	DEGDYTCQFT	HAENGNTYIV
BAA82405	LEWFKNCQAL	QGSRYRAHKS	FLVIDNVMT	DAGDYTCCKFI	HNENGANYSV
BAA02233	LEWFKNCQAL	QGSRYRAHKS	FLVIDNVMT	DAGDYTCCKFI	HNENGANYSV
Athdc120c9	LEWFKMSKAF	LCFQ.....	.....	.....	.....
BAA85894	LEWFKNCQAL	QGSRYRAHKS	FLVIDNVMT	DAGDYTCCKFI	HNENGANYSV

P14719	TATRSFTVE.	.....EKG	FSMFPVITNP	PYNHTMEVEI	GKPASIACSA
S29498	TATRSFTVE.	.....EKG	FSMFPVITNP	PYNHTMEVEI	GKPASIACSA
BAA82405	TATRSFTVK.	.....DEQG	FSLFPVIGAP	AQNEIKEVEI	GKNANLTCSA
BAA02233	TATRSFTVK.	.....DEQG	FSLFPVIGAP	AQNEIKEVEI	GKNANLTCSA
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	TATRSFTVKV	WCQSFCCLKK	SLIFSNTHWI	QSLMRGFVMV	YYGVHKCCRV

P14719	CFGKGSHFLA	DVLWQINKTV	VGNFGEARIQ	EEEGRNESSS	NDMDCLTSVL
S29498	CFGKGSHFLA	DVLWQINKTV	VGNFGEARIQ	EEEGRNESSS	NDMDCLTSVL
BAA82405	CFGKGTQFLA	AVLWQLNGTK	ITDFGEPRIQ	QEEGQNQSFS	NGLACLDMLV
BAA02233	CFGKGTQFLA	AVLWQLNGTK	ITDFGEPRIQ	QEEGQNQSFS	NGLACLDMLV
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	VFNLCLQYFQ	HHQWP.....	.....	.....	.....

P14719	RITGVTEKDL	SLEYDCLALN	LHGMIRHTIR	LRRKQPSKEC	PSHIA.....
S29498	RITGVTEKDL	SLEYDCLALN	LHGMIRHTIR	LRRKQPIDHR	SIYYIVAGCS
BAA82405	RIADVKEEDL	LLQYDCLALN	LHGLRRHTVR	LSRKNPIDHH	SIYCIIVACS
BAA02233	RIADVKEEDL	LLQYDCLALN	LHGLRRHTVR	LSRKNPIDHH	SIYCIIVACS
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

FIG. 11

P14719	.....	.....	.....	.....	.....
S29498	LLLMFINVLV	IVLKVFVWIEV	ALFWRDIVTP	YKTRNDGKLY	DAYIIYPRVF
BAA82405	VFLMLINVLV	IILKMFVIEA	TLLWRDIAKP	YKTRNDGKLY	DAYVVYPRNY
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

P14719	.....	.....	.....	.....	.....
S29498	RGSAAGTHSV	EYFVHHTLPD	VLENKCGYKL	CIYGRDLLPG	QDAATVVESS
BAA82405	KSSTDGASRV	EHFVHQILPD	VLENKCGYTL	CIYGRDMLPG	EDVVTAVETN
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

P14719	.....	.....	.....	.....	.....
S29498	IQNSRRQVFV	LAPHMMHSKE	FAYEQEIALH	SALIQNNSKV	ILIEMEPLGE
BAA82405	IRKSRRHIFI	LTPQITHNKE	FAYEQEVALH	CALIQNDAKV	ILIEMEALSE
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

P14719	.....	.....	.....	.....	.....
S29498	ASRLQVGDLO	DSLQHLVKIQ	GTIKWREDHV	ADKQSLSSKF	WKHVRYQMPV
BAA82405	LDMLQAEALQ	DSLQHLMKVQ	GTIKWREDHI	ANKRSLNSKF	WKHVRYQMPV
BAA02233	.....	.....	.....	.....	.....
Athdc120c9	.....	.....	.....	.....	.....
BAA85894	.....	.....	.....	.....	.....

P14719	.....	.....	.....
S29498	PERASKTASV	AAPLSGKACL	DLKHF
BAA82405	PSKIPRKASS	LTPLAAQKQ.	.....
BAA02233	.....	.....	.....
Athdc120c9	.....	.....	.....
BAA85894	.....	.....	.....

FIG. 11 CONT'D.

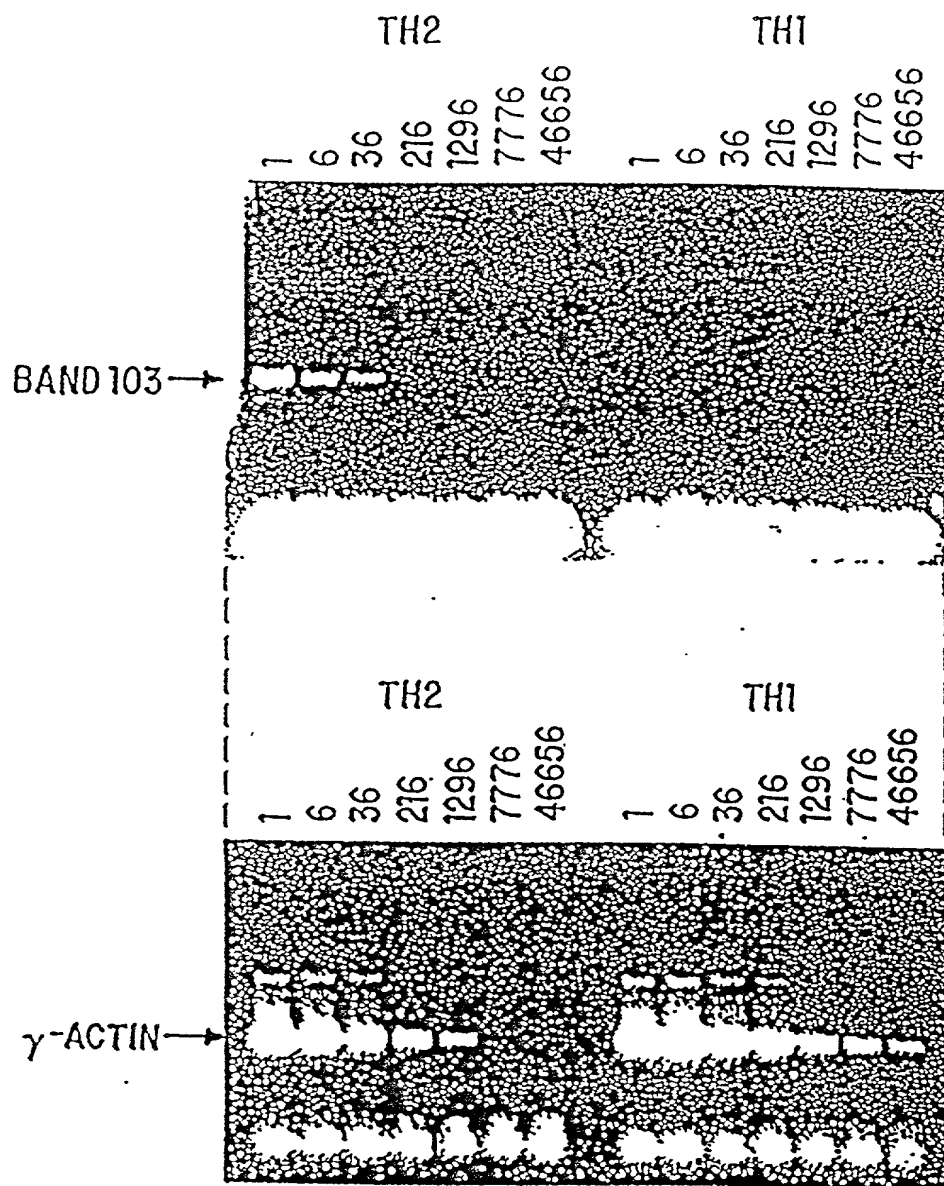


FIG. 12

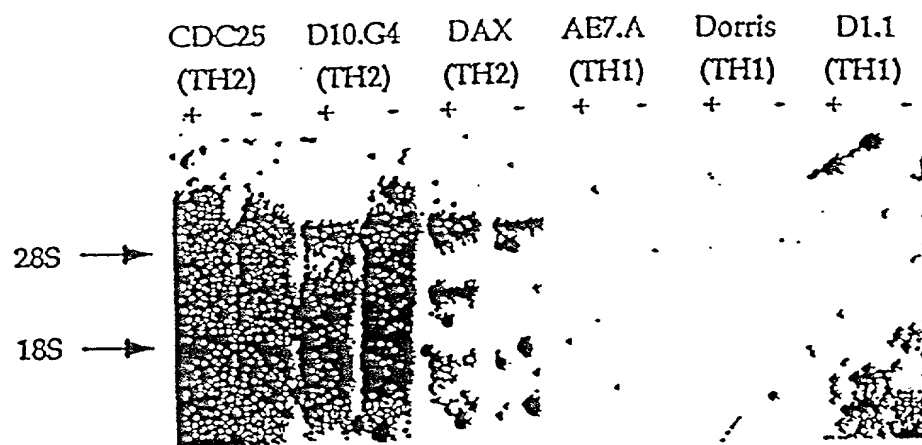


FIG. 13

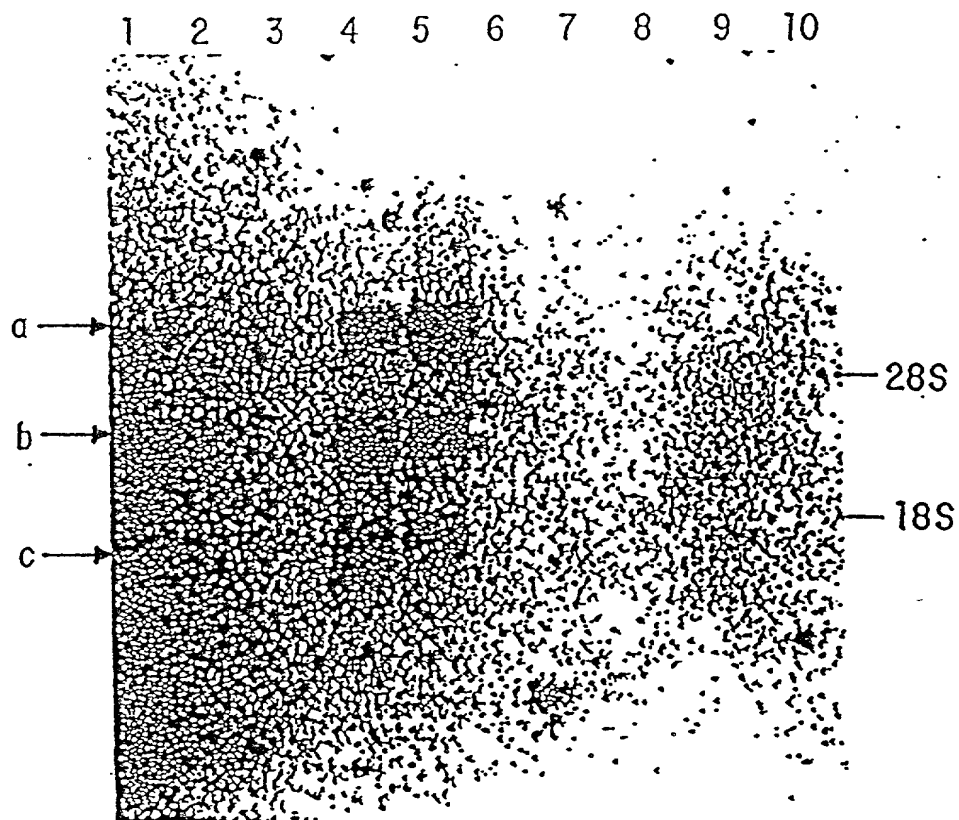


FIG. 14

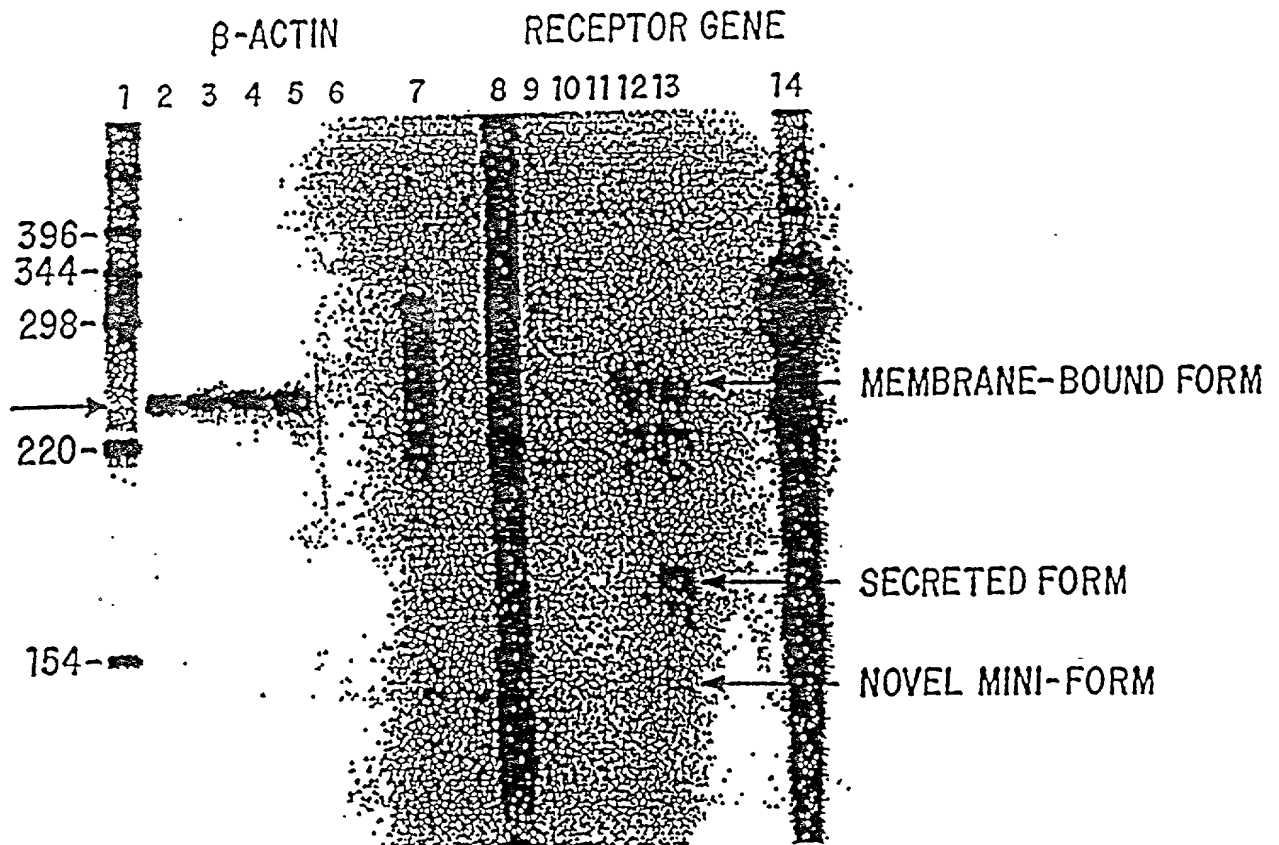
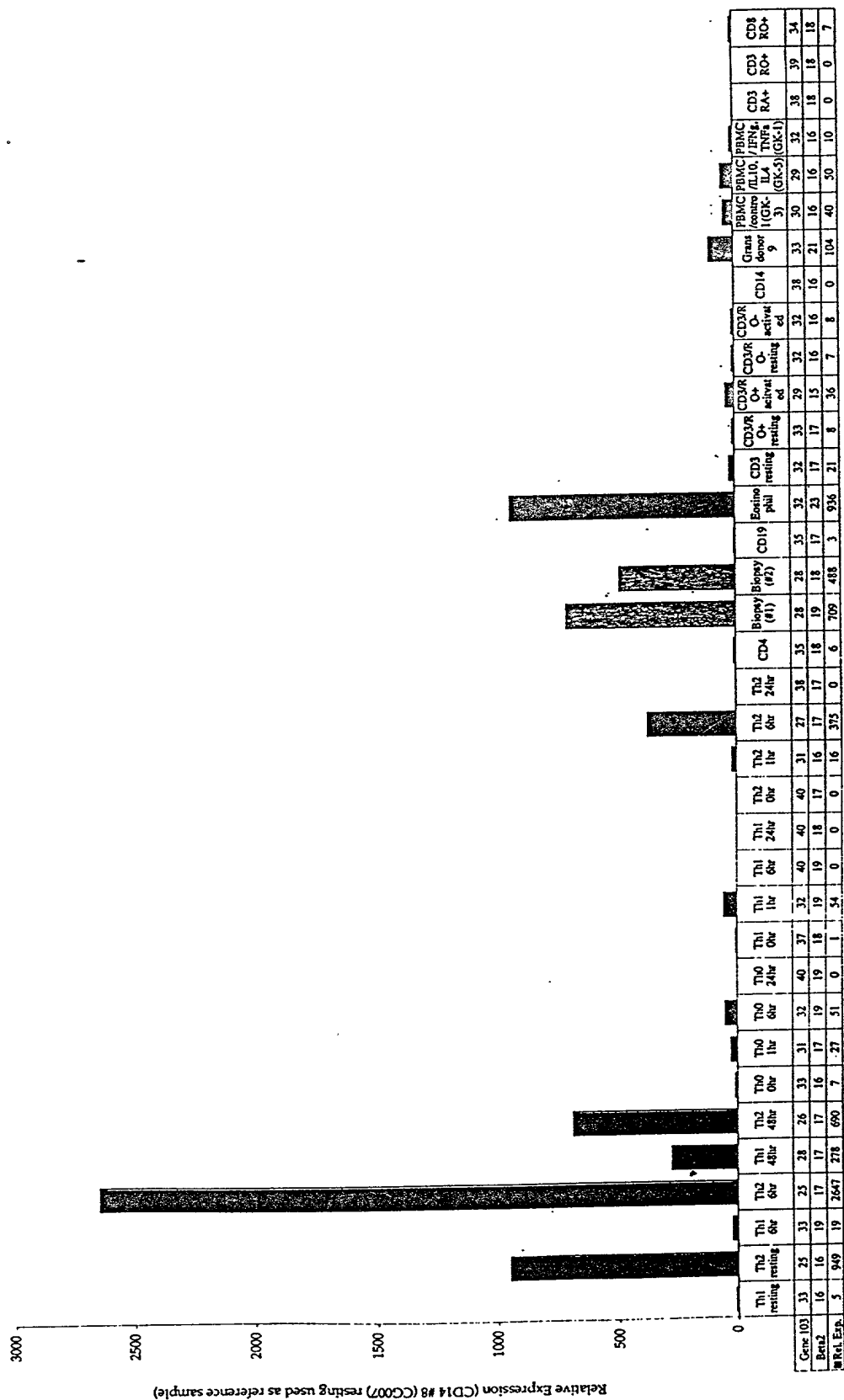
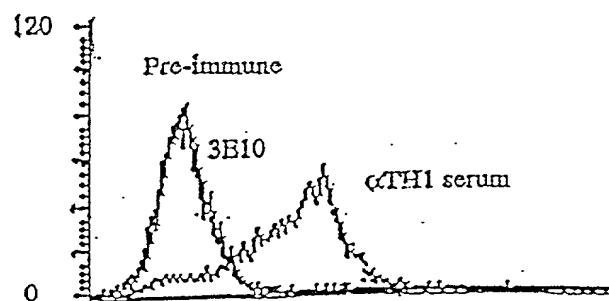


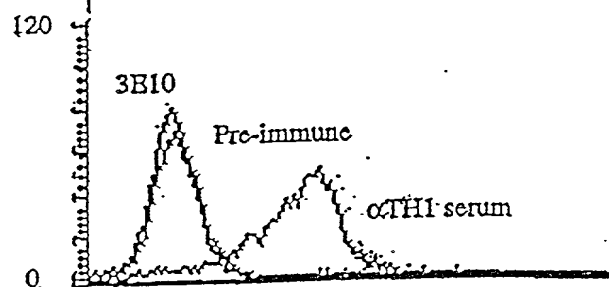
FIG. 15

[illegible]

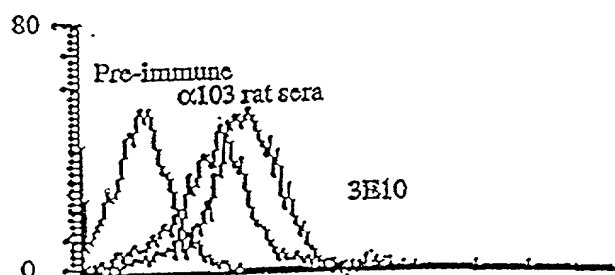
AE7



Dorris



D10.G4



DAX

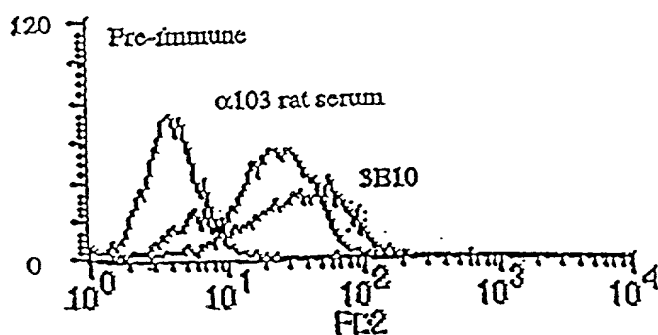


FIG. 17

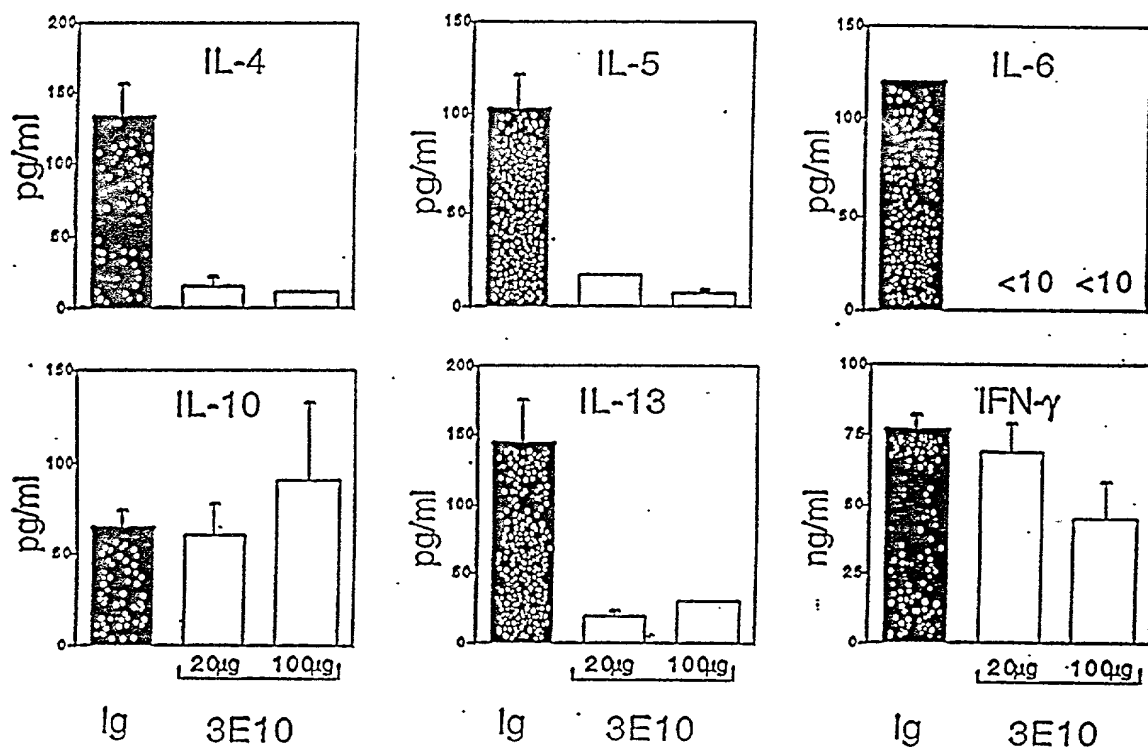


FIG. 18

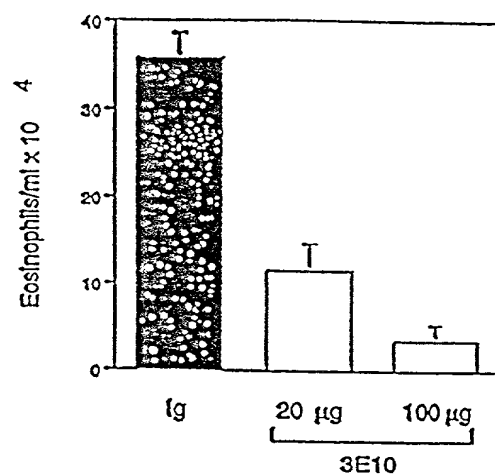
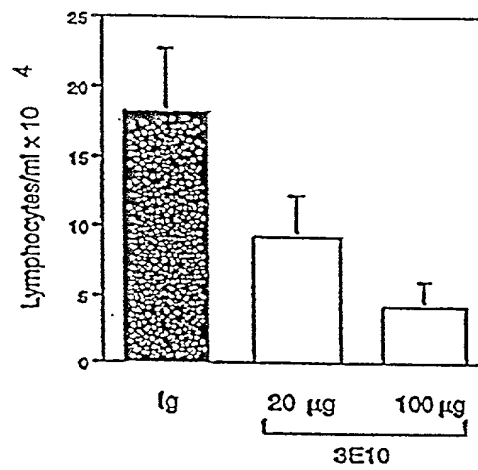


FIG. 19A

**FIG. 19B**

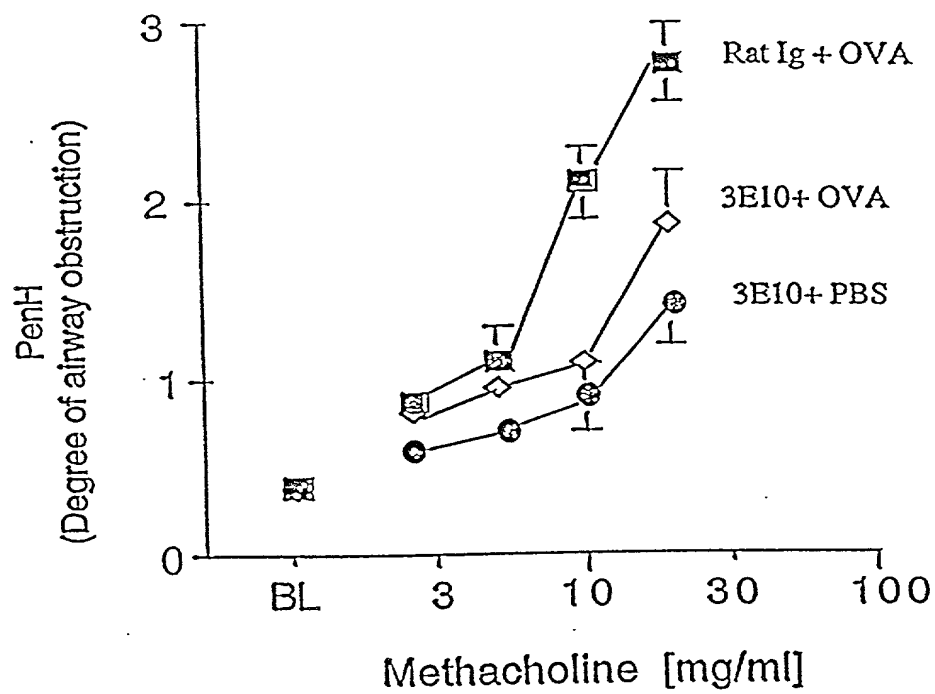


FIG. 20

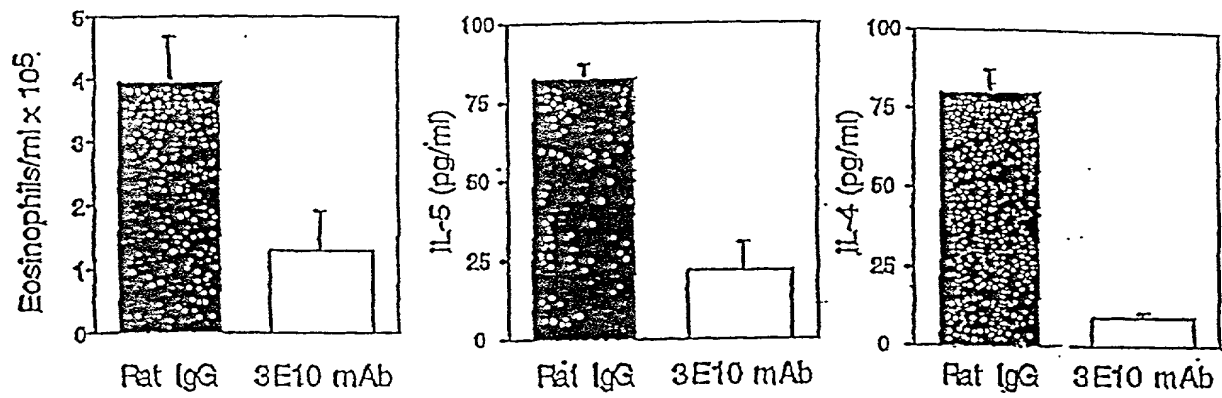


FIG. 21A

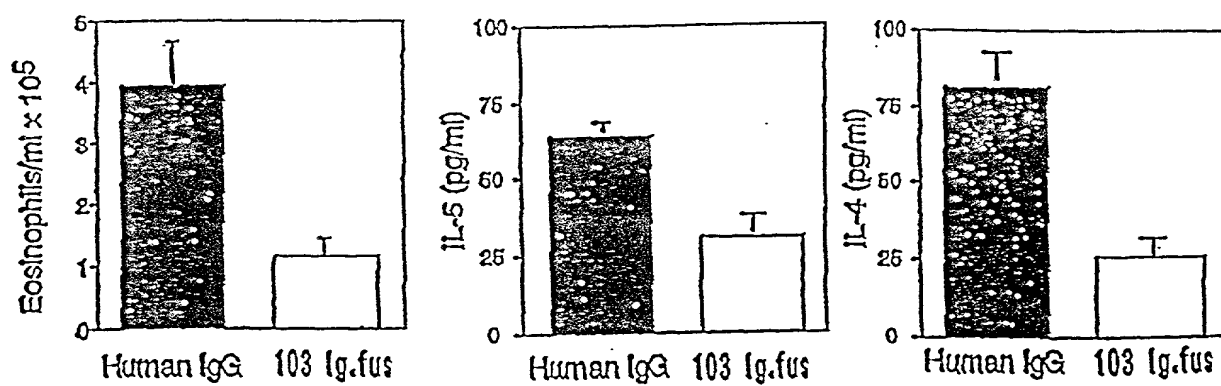


FIG. 21B

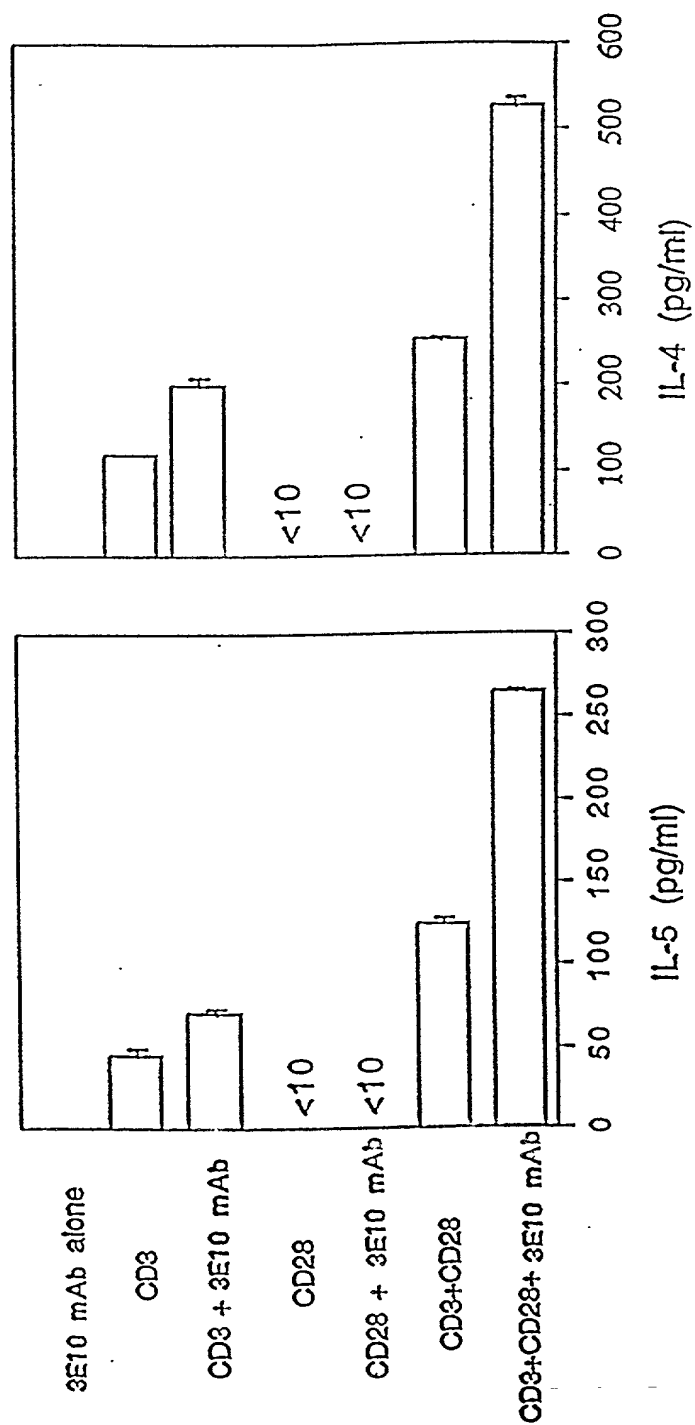


FIG. 22

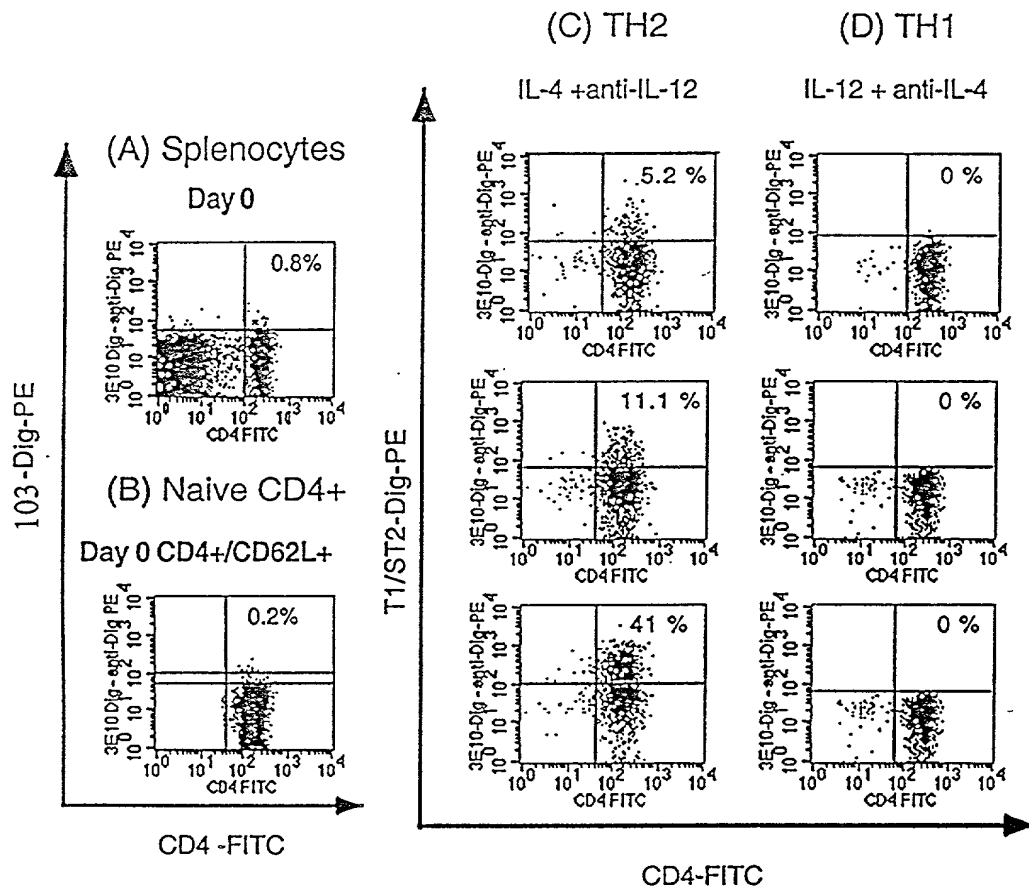


FIG. 23

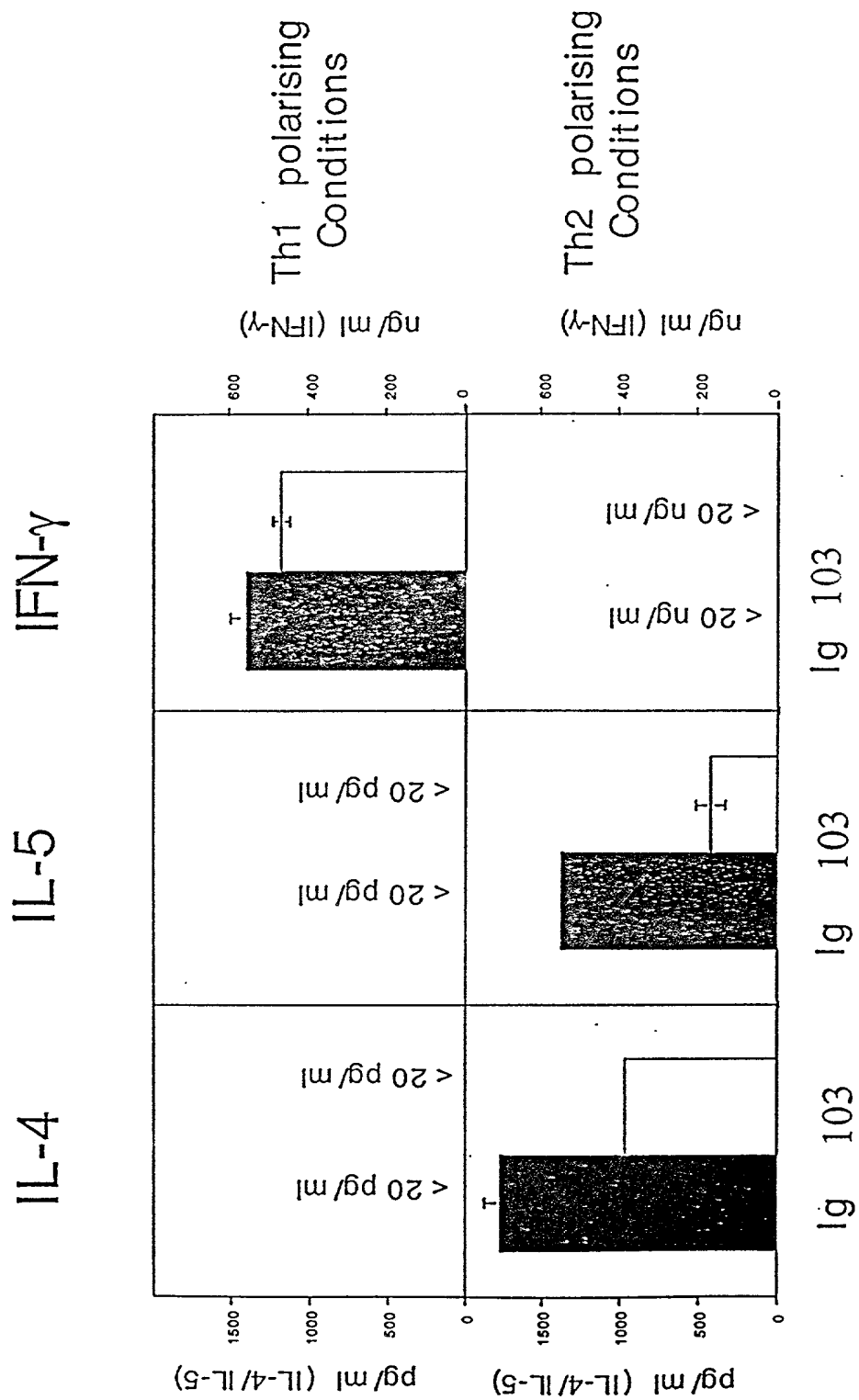


FIG. 24

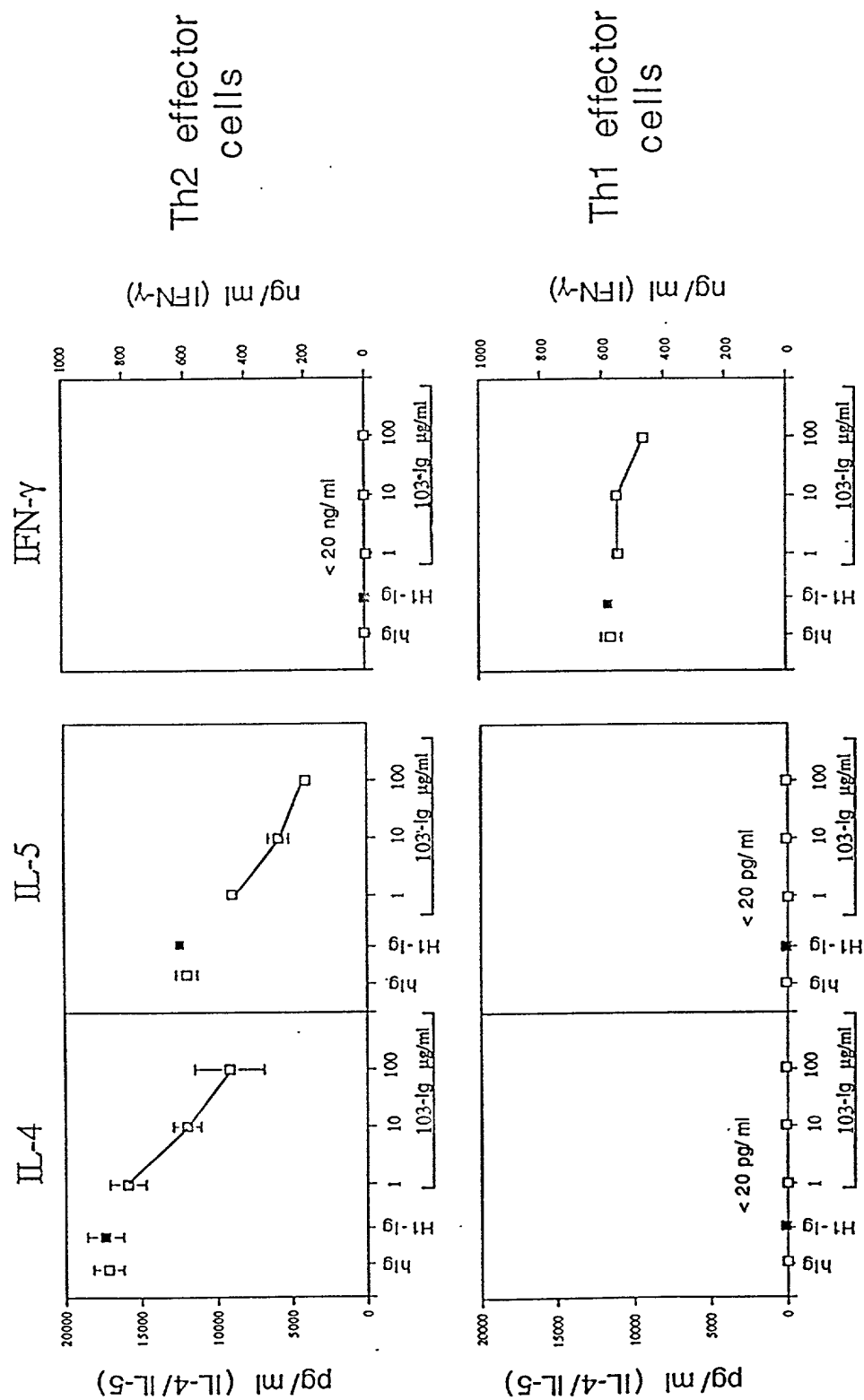


FIG. 25

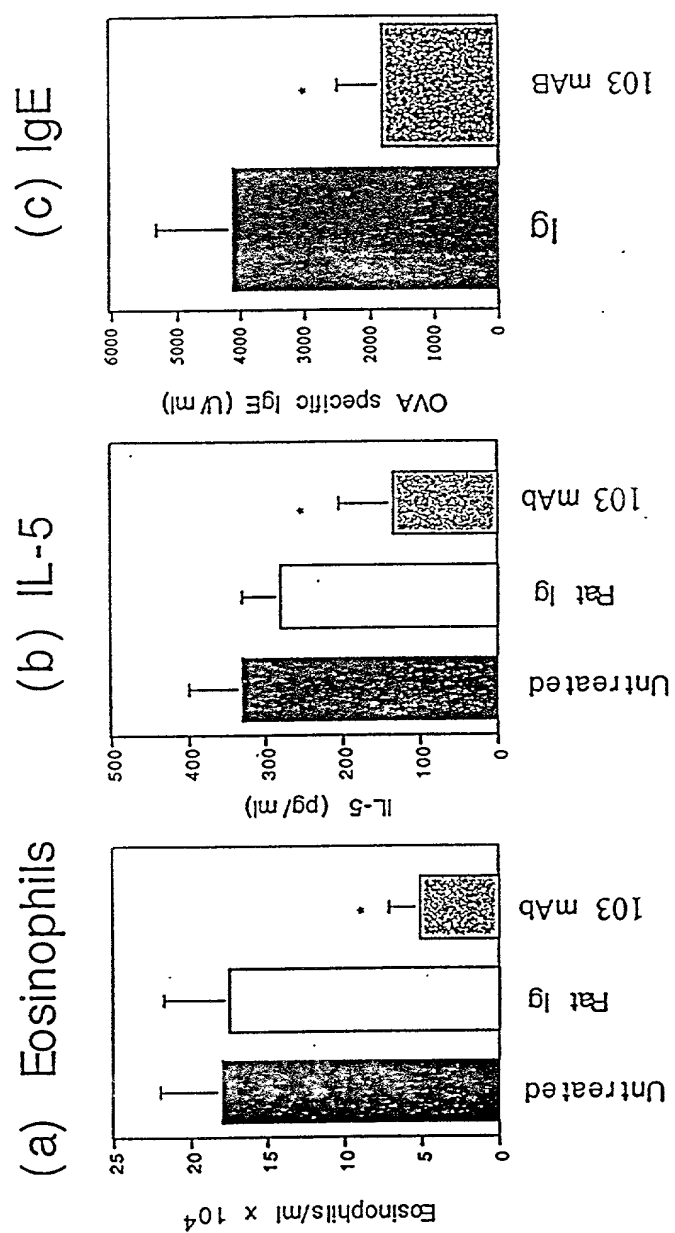


FIG. 26